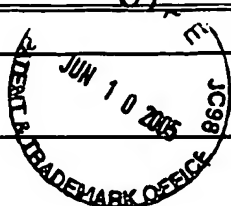
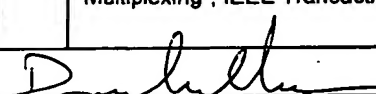
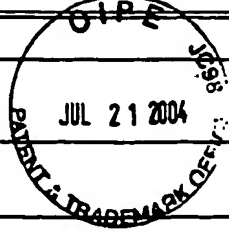
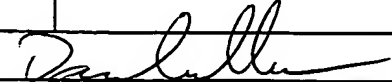


Sheet 1 of 2		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)  Date Submitted to PTO: June 10, 2005			ATTY DOCKET NO. 2003_1522		SERIAL NO. 10/693,526		
			APPLICANT Mitsuki OSHIMA et al.				
			FILING DATE October 27, 2003		GROUP <del>2614</del> 2634		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	3,824,548	7-16-74	Sullivan et al.	_____	_____	_____
	AB	3,959,726	5-25-76	Hinoshita et al.	_____	_____	_____
	AC	4,303,939	12-1-81	Stephens et al.	_____	_____	_____
	AD	4,303,941	12-1-81	Marti et al.	_____	_____	_____
	AE	4,309,726	1-5-82	Tanaka et al.	_____	_____	_____
	AF	4,535,352	8-85	Haskell	_____	_____	_____
	AG	4,564,858	1-14-86	Resch	_____	_____	_____
	AH	4,581,639	4-8-86	Judge	_____	_____	_____
	AI	4,769,819	9-6-88	Matsutani et al.	_____	_____	_____
	AJ	4,794,447	12-27-88	Tsinberg	_____	_____	_____
	AK	4,800,426	1-24-89	Glenn	_____	_____	_____
	AL	4,817,192	3-28-89	Phillips et al.	_____	_____	_____
	AM	5,007,088	4-9-91	Ooi et al.	_____	_____	_____
	AN	5,029,003	7-91	Jonnalagadda	_____	_____	_____
DH	AO	5,134,464	7-28-92	Basile et al.	_____	_____	_____
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AP						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DH	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
DH	AR	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991					
EXAMINER				DATE CONSIDERED 09/20/05			

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Sheet 2 of 2		INFORMATION DISCLOSURE STATEMENT					
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			APPLICANT Mitsuki OSHIMA et al.				
			FILING DATE October 27, 2003		GROUP 2814-2634		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DH	AA	5,181,112	1-19-93	Citta et al.	—	—	—
	AB	5,377,051	12-27-94	Lane et al.	—	—	—
	AC	5,400,084	3-21-95	Scarpa	—	—	—
	AD	5,576,902	11-19-96	Lane et al.	—	—	—
	AE	5,218,622	6-8-93	Fazel et al.	—	—	—
	AF	5,598,220	1-97	Citta et al.	—	—	—
DH	AG	5,802,241	9-1-98	Oshima	—	—	—
	AH						
	AI						
FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
DH	AJ	3-48587	3-1-91	Japan	—	—	abstract
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DH	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
DH	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
DH	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER 			DATE CONSIDERED 09/20/05				

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Sheet 1 of 1		FORM PTO 1449 (modified)		ATTY DOCKET NO. 2003_1522		SERIAL NO. 10/693,526			
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary )  Date Submitted to PTO: July 21, 2004				APPLICANT Mitsuaki OSHIMA et al.		FILING DATE October 27, 2003		GROUP <del>2644</del> 2634	
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	AA								
	AB								
	AC								
	AD								
	AE								
	AF								
	AG								
	AH								
	AI								
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
DH	AJ	2-154583	6-13-90	Japan			abstract		
	AK								
	AL								
	AM								
	AN								
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)									
DH	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991							
DH	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993							
	AQ								
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October 27, 2003

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	5,311,550	5-10-94	Fouche et al.	_____	_____	_____
	AB	4,630,287	12-16-86	Armstrong	_____	_____	_____
	AC	4,271,527	6-2-81	Armstrong	_____	_____	_____
	AD	5,050,188	9-17-91	Dirr	_____	_____	_____
	AE	5,398,073	3-14-95	Wei	_____	_____	_____
	AF	5,452,015	9-19-95	Hulyalkar	_____	_____	_____
	AG	5,565,932	10-15-96	Citta et al.	_____	_____	_____
	AH	5,481,412	1-2-96	Bannai et al.	_____	_____	_____
DA	AI	3,909,721	9-30-75	Bussgang et al.	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AJ	0365431	4-25-90	EP	_____	_____	X
	AK	0485105	5-13-92	EP	_____	_____	X
	AL	92/14343	8-20-92	WO	_____	_____	X
	AM	89/08366	9-8-89	WO	_____	_____	X
DA	AN	0031193	7-1-81	EP	_____	_____	X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DA	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
DA	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
DA	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	4,227,152	10-7-80	Godard et al.	_____	_____	_____
	AB	4,525,846	6-25-85	Bremer et al.	_____	_____	_____
	AC	4,751,478	6-14-88	Yoshida	_____	_____	_____
	AD	4,891,806	1-2-90	Farias et al.	_____	_____	_____
	AE	4,903,125	2-20-90	Parker	_____	_____	_____
	AF	4,937,844	6-26-90	Kao	_____	_____	_____
	AG	5,164,963	11-17-92	Lawrence et al.	_____	_____	_____
	AH	5,555,275	9-1996	Oshima	_____	_____	_____
DA	AI	5,565,926	10-15-96	Bryan et al.	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AJ	0311188	4-12-89	EP	_____	_____	X
	AK	0329158	8-23-89	EP	_____	_____	X
	AL	64-5135	1-10-89	JP	_____	_____	X
	AM	63-28145	2-5-88	JP	_____	_____	X
DA	AN	62-133842	6-17-87	JP	_____	_____	X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DA	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
DA	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.
DA	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DL	AA	5,105,442	4-14-92	Wei	_____	_____	_____
	AB	4,048,572	9-13-77	Dogliotti et al.	_____	_____	_____
	AC	5,282,019	1-25-94	Basile et al.	_____	_____	_____
	AD	5,311,547	5-10-94	Wei	_____	_____	_____
	AE	5,267,021	11-30-93	Ramchandran et al.	_____	_____	_____
	AF	5,038,219	8-6-91	Yamashita et al.	_____	_____	_____
	AG	5,087,975	2-11-92	Citta et al.	_____	_____	_____
	AH	5,086,340	2-4-92	Citta et al.	_____	_____	_____
DL	AI	5,243,629	9-7-93	Wei	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DL	AJ	53-137657	12-1-78	JP	_____	_____	X
	AK	0282298	9-14-88	Europe	_____	_____	X
	AL	0392538	10-17-90	Europe	_____	_____	X
	AM	0490552	6-17-92	Europe	_____	_____	X
DL	AN	0506400	9-30-92	Europe	_____	_____	X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DL	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
DL	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7
DL	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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Mitsuaki OSHIMA et al.FILING DATE  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,142,353	8-25-92	Kageyama et al.	_____	_____	_____
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.	_____	_____	_____
	AC	5,291,289	3-1-94	Hulyalkar et al.	_____	_____	_____
	AD	5,166,924	11-24-92	Moose	_____	_____	_____
	AE	4,940,954	7-10-90	Aubert et al.	_____	_____	_____
	AF	5,128,758	7-7-92	Azadegan et al.	_____	_____	_____
	AG	5,038,402	8-6-91	Robbins	_____	_____	_____
DH	AH	5,638,112	6-10-97	Bestler et al.	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DH	AI	0448492A1	9-25-91	Europe	_____	_____		X
	AJ	0485108A2	5-13-92	Europe	_____	_____	X	
	AK	0525641A2	2-3-93	Europe	_____	_____	X	
	AL	0540231A2	5-5-93	Europe	_____	_____	X	
DH	AM	0531046A2	3-10-93	Europe	_____	_____	X	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

DH	AN	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.
DH	AO	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.
DH	AP	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	5,063,445	11-5-91	Nishizawa et al.	_____	_____	_____
	AB	5,819,000	10-6-98	Oshima	_____	_____	_____
	AC	5,999,569	12-7-99	Oshima	_____	_____	_____
DA	AD	5,892,879	4-6-99	Oshima	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AE	7-99522	4-11-95	Japan	_____	_____	abstract
	AF	7-79415	3-20-95	Japan	_____	_____	abstract
	AG	5-75568	3-26-93	Japan	_____	_____	abstract
	AH	86-07223	12-4-86	WO	_____	_____	X
	AI	2 187 611	9-9-87	Great Britain	_____	_____	X
	AJ	85/04541	10-10-85	WO	_____	_____	X
	AK	04-196822	7-16-92	Japan	_____	_____	abstract
	AL	2-166979	6-27-90	Japan	_____	_____	abstract
	AM	64-74836	3-20-89	Japan	_____	_____	abstract
DA	AN	53-108215	9-20-78	Japan	_____	_____	abstract

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DA	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
DA	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207.
DA	AQ	English Language Abstract of European Patent No. 93 30 7575

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DA	AA	4,636,876	1-13-87	Schwartz	_____	_____	_____
	AB	4,855,692	8-8-89	Kennard et al.	_____	_____	_____
	AC	4,873,701	10-10-89	Tretter	_____	_____	_____
	AD	4,958,360	9-18-90	Sari	_____	_____	_____
	AE	5,115,453	5-19-92	Calderbank et al.	_____	_____	_____
	AF	5,168,509	12-1-92	Nakamura et al.	_____	_____	_____
	AG	5,561,468	10-96	Bryan et al.	_____	_____	_____
	AH	6,049,651	4-11-00	Oshima	_____	_____	_____
DA	AI	6,256,357	7-3-01	Oshima	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DA	AJ	0122805	10-24-84	EP	_____	_____	X	
	AK	63-180280	7-25-88	JP	_____	_____	abstract	
	AL	64-68144	3-14-89	Japan	_____	_____	abstract	
	AM	5-218978	8-27-93	Japan	_____	_____		X
DA	AN	3-69295	3-25-91	Japan	_____	_____		X

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DA	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
DA	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
DA	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,170,413	12-8-92	Hess et al.	_____	_____	_____
DH	AB	5,214,656	5-25-93	Chung et al.	_____	_____	_____

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AE	57-39629	3-4-82	Japan	_____	_____	abstract
	AD	58-161547	9-26-83	Japan	_____	_____	abstract
	AE	63-180222	7-25-88	Japan	_____	_____	abstract
	AF	92/22162	12-10-92	WO	_____	_____	X
	AG	2-94814	4-5-90	Japan	_____	_____	abstract
	AH	61-70861	4-11-86	Japan	_____	_____	abstract
	AI	2-218279	8-30-90	Japan	_____	_____	abstract
	AJ	2,095,435	5-10-92	Canada	_____	_____	X
	AK	91/20137	12-26-91	WO	_____	_____	X
	AL	2-141049	5-30-90	Japan	_____	_____	X
	AM	2-195732	8-2-90	Japan	_____	_____	abstract
	AN	5-167633	7-2-93	Japan	_____	_____	abstract
	AO	2-260726	10-23-90	Japan	_____	_____	X
DH	AP	58-161427	9-26-83	Japan	_____	_____	abstract

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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